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APPLICATION NO.	FILING DATE	FIRST NAMED INVEN	TOR	A	TTORNEY DOCKET NO.
09/276,820	03/26/99	HARRINGTON		J	1522.0030004
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SHANKS & HE	RBERT			SHUKLA,	<u> </u>
TRANSPOTOMA	C PLAZA			ART UNIT	PAPER NUMBER
1033 N FAIR ALEXANDRIA	FAX STREET	SUITE 306		1632 DATE WAILED:	31
					10/01/01

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

Office Action.Summary Examiner		Application No.	Applicant(s)
Ram Shukla 1632		09/276,820	HARRINGTON ET AL.
Period for Repty A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Extractions of the repty be existed used the processor of 3 CFR 1.18(a), in no event, however, may a reply be timely filed after SIX (6) MONTHS from the maining date of the communication. Extractions of time repty be existed used the processor of 3 CFR 1.18(a), in no event, however, may a reply be timely filed after SIX (6) MONTHS from the maining date of the communication. Extractions of the repty is specified used the time the repty with the stablety professional graph will be considered timely. If NO period for reply is specified be there there were station period will apply a will expire SIX (6) MONTHS from the maining date of this communication. Fallow to reply within the act or extended principly will, by statutor, providing a will expire SIX (6) MONTHS from the maining date of this communication. Fallow to reply within the act or extended profes for the provided principle and the maining date of this communication. Fallow to reply within the act or extended profes for the provided principle and the station prov	Office Action Summary	Examiner	Art Unit
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Extensions of time may be available under the provisions of 37 CR 1.13(b). In or event, however, may a reply be timely filed after SR. (§) MONTHS from the making date of this communication. If the partod or trayly specified above is less than limity (90) days are statistically minimum of thirty. (90) days will be considered timely. If the partod or trayly specified above is less than time provision of the specified above is less than time. (90) days are specified in the set of extended principle of the specified or the speci	•	VIC CET TO EVRIDE AMON	TU/C\ FDOM
1) Responsive to communication(s) filed on	THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl - If NO period for reply is specified above, the maximum statutory priod of Failure to reply within the set or extended period for reply will, by statute - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply y within the statutory minimum of thirty (30 will apply and will expire SIX (6) MONTHS to cause the application to become ABANI	be timely filed O) days will be considered timely. From the mailing date of this communication. DONED (35 U.S.C. § 133).
2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) 27! is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) is/are rejected to. 8) Claim(s) is/are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on 26 March 1999 is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved by disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action. 12) The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. §§ 119 and 120 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1 Certified copies of the priority documents have been received in Application No. application from the International Bureau (PCT Rule 17.2(a)). *See the attached detailed Office action for a list of the certified copies not received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 119(e) (to a provisional application). a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Attachment(s)			
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	2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	5) Notice of Info	rmal Patent Application (PTO-152)

Art Unit: 1632

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Ann Brown on 8-8-01.

2. The application has been amended as follows:

IN THE SPECIFICATION:

The abstract has been replaced with the following abstract:

--The field of the invention is activating gene expression or causing over-expression of a gene by recombination methods in situ. The invention relates to expresssing an endogenous gene in a cell at levels higher than those normally found in the cell. Expression of the gene is activated or increased following integration, by non-homolgous or illegitimate recombination, of a regulatory sequence that activates expression of the gene. The method allows the identification and expression of gene undiscovered by current methods since no target sequence is necessary for integration. Thus, gene products associated with human disease and development are obtainable from gene that have not been sequenced and indeed, whose existence is unknown, as well as from well characterized genes. The methods provide gene products from such genes for therapeutic and diagnostic purposes. In one embodiment the vector comprises a promoter, an exon, and an unpaired splice donor sequence, the exon being derived from a eukaryotic gene.--

On page, 130, in lines 10 and 11, at the end of the sentence add a ".".

On page, 130, in lines 11, at the end of the sentence add a ".".

On page 134, in line 22, at the end of the sentence add a ".".

On page 140, in line 30, at the end of the sentence add a ".".

Art Unit: 1632

On page 140, in line 26, replace the term "he" after the term "add" with the term "the".

IN THE CLAIMS:

Claims 58, 59, 64-69, 71-74, 76-82, 85-93, 96-123, 128, 129, 131, 132, 157, 159, 161, 162, 164-167, 169-175, 177-183, 223-226, and 232-270 have been cancelled. After cancellation of these claims, claim 271 is the only pending claim in the instant application.

In claim 271,

Line 1, the term "expression of a gene" has been replaced with "expression of an endogenous gene".

Line 2, the term "said cell" has been replaced with "said isolated eukaryotic cell".

Line 7, the term "a eukaryotic target cell" has been replaced with "said isolated eukaryotic cell".

Line 9, the term "said cellularly encoded gene" has been replaced with "said endogenous gene".

3. Notice To Comply With Requirements For Patent Applications Containing Nucleotide Sequence And/Or Amino Acid Sequence Disclosures.

This application contains sequence disclosures that are encompassed by the definitions for nucleotide and/or amino acid sequences set forth in 37 CFR 1.821(a)(1) and (a)(2). However, this application fails to comply with the requirements of 37 CFR 1.821 through 1.825 for the reason(s) set forth on the attached Notice To Comply With Requirements For Patent Applications Containing Nucleotide Sequence And/Or Amino Acid Sequence Disclosures.

Specifically the application fails to comply with CFR 1.821(d), which states:

⁽d) Where the description or claims of a patent application discuss a sequence that is set forth in the "Sequence Listing" in accordance with paragraph o of this section, reference must be made to the sequence by use of the sequence identifier, preceded by "SEQ ID NO:" in the text of the description or claims, even if the sequence is also embedded in the text of the description or claims of the patent application.

Art Unit: 1632

The specification discloses nucleotide sequences in figures 14-16, 29-35, and 37. However, these sequences are not identified by sequence identifiers. It is noted that the sequences of figures 14-16 have been assigned SEQ ID NO, however, these SEQ ID Nos are not listed in the sequence listing.

For compliance with sequence rules, it is necessary to include the sequence in the "Sequence Listing" and identify them with SEQ ID NO. In general, any sequence that is disclosed and/or claimed as a sequence, i.e., as a string of particular bases or amino acids, and that otherwise meets the criteria of 37 CFR 1.821(a), must be set forth in the "Sequence Listing." (see MPEP 2422.03).

For the response to this office action to be complete, Applicants are required to comply with the Requirements For Patent Applications Containing Nucleotide Sequence And/Or Amino Acid Sequence Disclosures.

- 4. It is noted that the PCT search report in the IDS submitted on 2-12-01 has been considered. However, a line has been drawn through it because it lacks a publication date and therefore can not be published.
- 5. The following is an examiner's statement of reasons for allowance:

The claimed invention is free of the prior art of record because the prior art of record does not teach or fairly suggest that a method of acitivating an endogenous gene in an eukaryotic cell by randomly integrating a vector construct wherein the vector construct comprises a promoter operably linked to a eukaryotic exon wherein the 3' end the exon is defined by an unpaired splice donor site. The art of record is US patent 6,080,576, effective filing date 3-27-1998. Claim 15 of the patent recites the same invention as the invention of the instant application.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Art Unit: 1632

Page 5

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ram R. Shukla whose telephone number is (703) 305-1677. The examiner can normally be reached on Monday through Friday from 7:30 am to 4:00 p.m. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Karen Hauda, can be reached on (703) 305-6608. The fax phone number for this Group is (703) 308-4242. Any inquiry of a general nature, formal matters or relating to the status of this application or proceeding should be directed to the Kay Pinkney whose telephone number is (703) 305-3553.

DAVET. NGUYEN PRIMARY EXAMINER

Ram R. Shukla, Ph.D.

Application No.: 09|276,820

NOTICE TO COMPLY WITH REQUIREMENTS FOR PATENT PLICATIONS CONTAINING NUCLEOTIDE SEQUENCE AND/OR AMINO ACID SEQUENCE DISCLOSURES

INING /

Applicant must file the items indicated below within the time period set the Office action to which the Notice is attached to avoid abandonment under 35 U.S.C. § 133 (extensions of time may be obtained under the provisions of 37 CFR 1.136(a)).

The nucleotide and/or amino acid sequence disclosure contained in this application does not comply with the requirements for such a disclosure as set forth in 37 C.F.R. 1.821 - 1.825 for the following reason(s):

Ţ	1. This application clearly fails to comply with the requirements of 37 C.F.R. 1.821-1.825. Applicant's attention is directed to the final rulemaking notice published at 55 FR 18230 (May 1, 1990), and 1114 OG 29 (May 15, 1990). If the effective filing date is on or after July 1, 1998, see the final rulemaking notice published at 63 FR 29620 (June 1, 1998) and 1211 OG 82 (June 23, 1998).
	2. This application does not contain, as a separate part of the disclosure on paper copy, a "Sequence Listing" as required by 37 C.F.R. 1.821(c).
	3. A copy of the "Sequence Listing" in computer readable form has not been submitted as required by 37 C.F.R. 1.821(e).
	4. A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 C.F.R. 1.822 and/or 1.823, as indicated on the attached copy of the marked -up "Raw Sequence Listing."
	5. The computer readable form that has been filed with this application has been found to be damaged and/or unreadable as indicated on the attached CRF Diskette Problem Report. A Substitute computer readable form must be submitted as required by 37 C.F.R. 1.825(d).
	6. The paper copy of the "Sequence Listing" is not the same as the computer readable from of the "Sequence Listing" as required by 37 C.F.R. 1.821(e).
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PLEASE RETURN A COPY OF THIS NOTICE WITH YOUR REPLY